Examples, Part 2Question

Sunday, October 16, 2022 6:52 PM

Question

- With the spreadsheet setup shown and if the user enters 2 in the input box, what value will result in the message box when **WhatResults** is executed?

Question

-

	A	B	C
1	-6	8	-1
2	3	5	0
3	-4	9	-1
4	10	6	-7
5	-2	7	-3

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6	-9	1	-6
7	-9	-7	-8

-

```
Option Explicit

Sub WhatResults()
Dim x As Integer, y As Integer
x = InputBox("Please enter an integer")
ActiveCell.Offset(ActiveCell.Offset(-2, 2), ActiveCell.Offset(3, 1)).Select
y = ActiveCell
MsgBox Cells(y, x)
End Sub
```

```
'Question: With the spreadsheet setup shown and if the user enters 2
'in the input box, what value will result in the message box when
'WhatResults is executed?
'For illustration purposes I've taken this apart to understand
'what is going on. Last sub is putting it all together.
'!note the active cell in this example is A3 =-4
Sub test()
'Two rows up and Two col righ
'C1 = -1
MsgBox ActiveCell.Offset(-2, 2)
End Sub

Sub test2()
'Three rows down and one col to the right so B6=1
MsgBox ActiveCell.Offset(3, 1)
End Sub

Sub test3()
'(-1,1) so up one row and one col to the right
'B2 = 5
MsgBox ActiveCell.Offset(ActiveCell.Offset(-2, 2), ActiveCell.Offset(3, 1))
End Sub

Sub WhatResults()
Dim x As Integer, y As Integer
x = InputBox("Enter a number:")
'From above this is (-1,1) or B2=5
ActiveCell.Offset(ActiveCell.Offset(-2, 2), ActiveCell.Offset(3, 1)).Select
y = ActiveCell
'Cells references the entire sheet so starting from A1
'down 5 rows and two col to the right
'so this is (5, 2) or B5 = 7
MsgBox Cells(y, x)

End Sub
```

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Correct

Correct! The 4th line is tricky, because the "outer" function is to change the location of the active cell [**ActiveCell.Offset(,).Select**]. The rows and columns to offset by are themselves offset functions. **ActiveCell.Offset(-2,2)** refers to cell **C1**, which is -1. **ActiveCell.Offset(3,1)** refers to cell **B6**, which is 1. So, on the 4th line we perform **ActiveCell.Offset(-1,1).Select**, which makes cell **B2** the new active cell. In the 5th line, y is set to the active cell value, which is now 5. In the 6th line, x is equal to 2 (user input value) and y is equal to 5, so **Cells(5,2)** refers to cell **B5**, which has a value of 7.